

AMENDMENTS TO THE CLAIMS

Cancel claims 1-8, 13-19 and 24-32 without prejudice

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-8. (canceled)

9. (currently amended) A method comprising:

selecting frames from a sequence of frames of telephony signal data;

analyzing the selected frames to determine whether a signaling tone is present in the selected frames; and

only if it is determined that a one of the analyzed frames includes a beginning or an end of a signaling tone, analyzing subframes of the one of the analyzed frames to determine whether the signaling tone is present in the subframes of the one of the analyzed frames, the subframes each overlapping a portion of the one of the analyzed frames, said analyzing of said one of said subframes occurring after said one of said frames has been analyzed to determine that the signaling tone is present in said one of said frames.

10. (original) The method of claim 9, wherein the selecting includes selecting every nth frame from the sequence of frames of telephony signal data, n being an integer greater than 1.

11. (original) The method of claim 10, wherein the selecting further includes selecting each frame that is immediately before or immediately after an analyzed frame that is determined to include a signaling tone.

12. (original) The method of claim 9, wherein the analyzing of the selected frames includes performing a fast Fourier transform with respect to the selected frames.

13-19. (canceled)

20. (currently amended) An apparatus comprising:

frame selection circuitry to select frames from a sequence of frames of telephony signal data;

frame analysis circuitry, responsive to the frame selection circuitry, and operative to analyze the frames selected by the frame selection circuitry to determine whether a signaling tone is present in the frames selected by the frame selection circuitry; and

subframe analysis circuitry, responsive to the frame analysis circuitry, and operative to analyze only subframes of frames previously analyzed by the frame analysis circuitry and determined by the frame analysis circuitry to include a beginning or an end of the signaling tone, to determine whether the signaling tone is present in the subframes, the subframes each overlapping a portion of a respective one of the frames.

21. (original) The apparatus of claim 20, wherein the frame selection circuitry is operative to select every nth frame from the sequence of frames of telephony signal data, n being an integer greater than 1.

22. (original) The apparatus of claim 21, wherein the frame selection circuitry is responsive to the frame analysis circuitry to select each frame that is immediately before or immediately after a frame that is determined by the frame analysis circuitry to include a signaling tone.

23. (original) The apparatus of claim 20, wherein the frame analysis circuitry is operative to perform a fast Fourier transform with respect to the frames selected by the frame selection circuitry.

24-32. (canceled)

33. (new) A system comprising:

an interface to receive an input signal;

a buffer coupled to the interface to store a telephony signal data frame included in the input signal; and

circuitry coupled to the buffer and operative to:

select frames from a sequence of frames of telephony signal data;

analyze the selected frames to determine whether a signaling tone is present in the selected frames; and

only if it is determined that a one of the analyzed frames includes a beginning or an end of a signaling tone, analyze subframes of the one of the analyzed frames to determine whether the signaling tone is present in the subframes of the one of the analyzed frames, the subframes each overlapping a portion of the one of the analyzed frames, said analyzing of said one of said subframes occurring after said one of said frames has been analyzed to determine that the signaling tone is present in said one of said frames.

34 (new) An apparatus comprising:

a storage medium having stored therein instructions that when executed by a machine result in the following:

selecting frames from a sequence of frames of telephony signal data;

analyzing the selected frames to determine whether a signaling tone is present in the selected frames; and

only if it is determined that a one of the analyzed frames includes a beginning or an end of a signaling tone, analyzing subframes of the one of the analyzed frames to determine whether the signaling tone is present in the subframes of the one of the analyzed frames, the subframes each overlapping a portion of the one of the analyzed frames, said analyzing of said one of said subframes occurring after said one of said frames has been analyzed to determine that the signaling tone is present in said one of said frames.